



SEQ ID NO:8 and SEQ ID NO:10 under conditions comprising (i) hybridizing in a solution comprising 1X SSC in the absence of nucleic acid helix destabilizing agents, at a temperature of about 37°C and (ii) washing in a solution comprising 1X SSC in the absence of nucleic acid helix destabilizing agents, at a temperature of about 76°C.

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2. (Twice Amended) The isolated nucleic acid molecule of Claim 1, said nucleic acid molecule comprising a nucleic acid sequence selected from the group consisting of SEQ ID NO:8 and SEQ ID NO:10.

3. (Once Amended) A recombinant molecule comprising an isolated nucleic acid molecule as set forth in Claim 1 operatively linked to a transcription control sequence.

4. (Once Amended) A recombinant virus comprising an isolated nucleic acid molecule as set forth in Claim 1.

5. (Once Amended) A recombinant cell comprising an isolated nucleic acid molecule as set forth in Claim 1.

6. A composition comprising an isolated nucleic acid molecule of Claim 1 and a component selected from the group consisting of an excipient, an adjuvant and a carrier.

7. A method to produce a protein encoded by an isolated nucleic acid molecule of Claim 1, said method comprising culturing a cell transformed with a nucleic acid molecule encoding said protein.

8. (Once Amended) The method of Claim 7, wherein said nucleic acid molecule encodes a protein having an amino acid sequence SEQ ID NO:9.

9. (Once Amended) The method of Claim 7, wherein said nucleic acid molecule comprises a nucleic acid sequence SEQ ID NO:8.

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10. (Once Amended) An isolated nucleic acid molecule selected from the group consisting of: (a) an isolated nucleic acid molecule encoding a protein comprising an amino acid sequence SEQ ID NO:9; and (b) a nucleic acid molecule complementary to a nucleic acid molecule of (a).

11. (Twice Amended) The isolated nucleic acid molecule of Claim 10, wherein said nucleic acid molecule encodes a protein having an amino acid sequence SEQ ID NO:9.

12. A composition comprising an isolated nucleic acid molecule of Claim 10 and a component selected from the group consisting of an excipient, an adjuvant and a carrier.

13. A method to produce a protein encoded by an isolated nucleic acid molecule of Claim 10, said method comprising culturing a cell transformed with a nucleic acid molecule encoding said protein.

14. (Once Amended) The method of Claim 13, wherein said nucleic acid molecule encodes a protein having an amino acid sequence SEQ ID NO:9.

15. (Once Amended) The method of Claim 13, wherein said nucleic acid molecule comprises a nucleic acid sequence SEQ ID NO:8.

24. (Added) An isolated nucleic acid molecule that encodes a protein having an amino acid sequence selected from the group consisting of SEQ ID NO:9 and variants thereof that are at least 95% identical to SEQ ID NO:9, wherein said variants exhibit TAG1 activity.

25. (Added) The isolated nucleic acid molecule of Claim 24, said nucleic acid molecule comprising a nucleic acid sequence SEQ ID NO:8.

26. (Added) A composition comprising an isolated nucleic acid molecule of Claim 24 and a component selected from the group consisting of an excipient, an adjuvant and a carrier.

27. (Added) A method to produce a protein encoded by an isolated nucleic acid molecule of Claim 24, said method comprising culturing a cell transformed with a nucleic acid molecule encoding said protein.
